

Ch 2q23-q31

Centromere

1cM

D2S142

D2S284

4cM

D2S156/

4cM

D2S354

D2S111

5cM

D2S294

2cM

D2S335

IGE locus

6cM

29 cM

2cM

D2S324

2cM

D2S384

D2S152

8cM

Telomere

D2S311

FIGURE 1

1Ax00.1

NaC-340 TGTGTTCTGCCCCAGTGAGACT

NaC-341 CTCCTGCTCTGCCCAAACCTGAAT

257 bp 53.4C

1Ax00.2

NaC-342 GGCGATGTAATGTAAGGTGCTGTC

NaC-343 GTGCCTTCAGTTGCAATTGTTCAG

259bp 54.5C

1Ax01.1

NaC-268, TTAGGAATTTTCATATGCAGAATAA,

NaC-269 TGGGCCATTTTTCGTCGTC

201 bp 50.9C

1Ax01.2

NaC-270 GAAAGACGCATTGCAGAAGAAAAGG,

NaC-271 CTATTGGCATGTGTTGGTGCTACA

277bp54.4C

1Ax02

NaC-45 GTGCTGGTTTCTCATTTAACTTTAC,

NaC-46 TTCCCAACTTAATTTGATATTTAGC,

319 bp 49.9C

1Ax03

NaC-87, GCAGTTTGGGCTTTTCAATGTTAG,

NaC-88, GACACAGTTTCARAATCCCRAATG,

234 bp 48.9C

1Ax04

NaC-63, TTAGGGCTACGTTTCATTTGTATG,

NaC-64, AGCACTGATGGAAAACCAAACCTAT,

338 bp 50.8C

1Ax05

NaC-164 AGCCCATGCAGTAATATAAATCCT

NaC-165 TCCAGGCTGATAAGCTATGTCTAA,

488 bp 52.8C

1Ax06

NaC-276, CTGTGGCCTGCCTGAGCGTATT,
NaC-277 CCAATTCTACTTTTAAAGGAAATG,
248bp 50.3C

1Ax07

NaC-272, AAATACTTGTGCCTTTGAA,
NaC-273, GTACATACAATATACACAGATGC
240 bp 46.7C

1Ax08

NaC-89, AGGCAGCAGAACGACTTGTAATA,
NaC-90, ATCCGGTTTAAATTCATAACTCA,
267 bp 51.9C

1Ax09.2

NaC-217 GTTGAGCACCCCTTAGTGAATAATA,
NaC-218 TCACACGCTCTAGACTACTTCTCT
337bp 52.7C

1Ax10a NaC-29, TGCAAATACTTCAGCCCTTTCAAA,
NaC-30, TTCCCCACCAGACTGCTCTTTC,
239bp, 55.1C

1Ax10a

NaC-31, GCAGCAGGCAGGCTCTCA,
NaC-32, TCTCCCATGTTTTAATTTTCAACC,
293bp, 54.5C

1Ax10b

NaC-67, ATAATCTTGCAAAATGAAATCACA,
NaC-68, ATCCGGGATGACCTACTGG
307 bp 53.7C

1Ax10b

NaC-65, GATAACGAGAGCCGTAGAGATTCC,
NaC-66, AGCCAGCCATGCCTGAACTA
282bp 56.4C

FIGURE 2 (cont'd)

(2/6)

1Ax10c

NaC-39, TGTTTGCTTGTCATATTGCTCAA,

NaC-40, TGCACTATTCCCAACTCACAAA,

286bp, 50.7C

1Ax11.1

NaC-69 AAGGGTGTCTCTGTAAACAAAAATG,

NaC-70, GTGATGGCCAGGTCAACAAA

269bp 50.8C

1Ax11.2

NaC-71 CTGGGACTGTTCTCCATATTGGTT,

NaC-72, TTGCAGGGGCCAGGAAG

294 bp 53.3°C

1Ax12

NaC-41 CATTGTGGGAAAATAGCATAAGC,

NaC-42, GCAAGAACCCTGAATGTTAGAAA,

334bp, 51.2C

1Ax13.1

NaC-92 TAATGCTTTTAAGAATCATACAAA,

NaC-93, CCAGCGTGGGAGTTGACAATC,

256bp, 51.1C

1Ax13.2

NaC-75 CGGCATGCAGCTCTTTGGTA,

NaC-91, ATGTGCCATGCTGGTGTATTTC,

277 bp 55.6C

1Ax14.1

NaC-79 CACCCATCTTCTAATCACTATGC,

NaC-80, CAGCAATTTGGAGATTATTCATT,

254 bp 50.4C

1Ax14.2

NaC-81 GCAGCCACTGATGATGATAA,

NaC-82, CTGCCAGTTCCTATAACCACTT,

269 bp 49.4C

FIGURE 2 (cont'd)

(3/6)

1Ax14.3

NaC-83 TACAGCAGAAATTGGGAAAGAT,
NaC-84, GTATTCATACCTACCCACACCTAT,
269 bp 50.2C

1Ax15

NaC-202 TTCTTGGCAGGCAACTTATTACC,
NaC-203 TAAGCTGCACTCCAAATGAAAGAT
233bp 53.1C

1Ax16.1

NaC-187, GGCTGAATGTTTCCACAACCT,
NaC-168 GTTCAACTATTCGGAAACACG
277 bp, 51.4C

1Ax16.2

NaC-188, AGGCAGAGGAAAACAATGG,
NaC-189, ACAAGGTGGGATAATTAAAAATG
234 bp, 50.3C

1Ax17

NaC-143, GTTCTCTGCCCTCCTATTCC,
NaC-144, AAGCTACCTTGAACAGAGACA,
330 bp, 48.8C

1Ax18

NaC-139, AATGATGATTCTGTTTATTA,
NaC-140, AATTTGCCATTCTTTTG,
272 bp, 46.1C

1Ax19.1

NaC-219 TTGACATCGAAGACGTGAATAATC,
NaC-220 CCATCTGGGCTCATAAACTTGTA
285bp 49.3C

1Ax20

NaC-338 CCCTTTGAAAATTATATCAGTAA,
NaC-339 ATTTGGTCGTTTATGCTTTATTC
230 bp 47.6C

1Ax21

NaC-252, TCCAGCACTAAAATGTATGGTAAT,

NaC-253, ATTTGGCAGAGAAAACACTCC

261 bp 49.8C

1Ax22

NaC-254, TTTTAGCCATCCATTTTCTATTTT,

NaC-255, TATTTTCCCCCATATCATTGA

223 bp 49.1C

1Ax23.1

NaC-256 TTTGCAAGAACTAGAAAGTC,

NaC-257 TTGATGCGTGACAAAATGG

250bp 48.3C

1Ax23.2

NaC-258 GACCAGAGTGAATATGTGACTACC,

NaC-259 CTGGGATGATCTTGAATCTAATC

246bp 49.5C

1Ax24.1

NaC-221 GCAACTCAGTTCATGGAATTTGAA,

NaC-222 CTTGTTTTTCGTTTTAAAGTAGTA

289bp 56.1C

1Ax24.2

NaC-213 CAAAGATCACCCCTGGAAGCTCAGTT,

NaC-223 TTCAAGCGCAGCTGCAAAGTGAAT

277bp 55.8C

1Ax24.3

NaC-260 ACATCGGCCTCCTACTCTTCCTA,

NaC-261 ACAGATGGGTTCCACAGTCC

268 bp 55.3C

1Ax24.4

NaC-262 TAACGCATGATTTCTTCACTGGTT,

NaC-263 ATCCCAAAGATGGCGTAGATGA

262 bp 54.9C

FIGURE 2 (cont'd)

(5/6)

1Ax24.5
NaC-308, TGAGAAATAGGCTAAGGACCTCTA,
NaC-309 CCTAGGGGCTGGATTCC
244 bp 53.2C

1Ax24.6
NaC-310, AAGGGGTGCAAACCTGTGATTTT,
NaC-311 AGGGCCATGTGGTTGCCATAC
252 bp 53.4C

1Ax24.7
NaC-312 CTTCCGGTTTATGTTTTTCATTTCT,
NaC-313 TCTTTATTAGTTTTGCACATTTTA
278bp 48.4C

1Ax24.8
NaC-364 CAATCCTTCCAAGGTCTCCTATC,
NaC-365 TTTCATCTTTGCCTTCTTGCTCAT
326bp 52.4C

1Ax24.9
NaC-366 CATGTCCACTGCAGCTTGTCCA,
NaC-367 TCCCCTTTACACAGAGTCACAGTT
292bp 53.1C

FIGURE 2 (cont'd)

(6/6)

a. Glu1238Asp:
normal: GCA TTT GAA GAT ATA;
patient R10191 with IGE: GCA TTT GAC GAT ATA.

b. Ser1773Tyr:
normal: ATC ATA TcC TTC CTG;
patient R9049 with IGE: ATC ATA TmC TTC CTG; TCC>TAC

FIGURE 3

2Ax00.1 NaC-235 ATGGGTTGAATGACTTTCTGACAT, NaC-236
AGGCATTTCCTGTACAGGGACTAC
266bp 52.7C

2Ax00.2 NaC-237 ACAGGAAATGCCTCTTCTTACTTC, NaC-238
TTTCCCCAAGGATTCTACTACTGT
277bp 50.6C

2Ax01 NaC-100, AGTGCATGTAAGTACACAATCAC, NaC-101,
CTTGCGTTCCTGTTTGGGTCTCT
241 bp 53.7C

2Ax01 NaC-11 TCCGCTTCTTTACCAGGGAATC, NaC-102,
AGGCAGTGAAGGCAACTTGACTAA, 259
bp 55.1C

2Ax02 NaC-96, CAGGGCAATATTTATAAATAATGG, NaC-97,
TTTGGAATAATGTGTAGCTCAATAA,
289 bp 48.7C

2Ax03 NaC-43, AAGGCATGGTAGTGCATAAAAG, NaC-44,
ATGAAACATAAAGGGAGGTCAA, 201
bp, 49.3°C

2Ax04 NaC-47, AATGTGAGCTTGGCTATTGTCTCT, NaC-48,
ATAGGCTCCCACCAGTGATTTAC,
213 bp, 50.9°C

2Ax05 NaC-49, AGGCCCCTTATATCTCCAAGT, NaC-50,
CAACAAGGCTTCTGCACAAAAG, 241
bp, 53.9°C

2Ax05.2 NaC-110, CTTGGTGGCTTGCCTTGAC, NaC-111, TCATGAGTGTCGCCATCAGC,
223
bp, 51.1C

2Ax05.3 NaC-112, GGAAAGCTGATGGCGACACT, NaC-113,
CTGAGACATTGCCAGGTCC, 329
bp 53.0C

FIGURE 4
(1/6)

2Ax05.4 NaC-114, TTTTACCCGTTGCTTTCTTTA, NaC-115,
TATCCCTTGCTCTTTCATTTATCT
224bp 50.9C

2Ax06.1 NaC-169, GCCGGTAAAATAGCTGTTGAGTAG, NaC-170,
GCCATTGCAAACATTTATTTTCGTA 206bp 53.3C

2Ax06.2 NaC-171, GCGTGTTTGCGCTAATAG, NaC-172,
CTAAGTCACTTGATTCACATCTAA
295bp 48.0C

2Ax07 NaC-196, ACAGGGTGGCTGAAGTGTTTTA, NaC-197,
GTGGGAGGTGGCAGGTTATT, 199
bp, 52.6C

2Ax08 NaC-118, CAATTAGCAGACTTGCCGTTATT, NaC-119,
TCTCTTGAGTTCGGTGTTTATGA
252bp 52.9C

2Ax09 NaC-120, ACCGAACTCAAGAGAATTGCTGTA, NaC-121,
AAAGGACCGTATGCTTGTTCACTA
334bp 52.9C

2Ax10a.1 NaC-161 TATGAATGCGCATTTTACTCTTTG, NaC-156
TGGAGCTCAACTTAGATGCTACTG
286 bp 52.1C

2Ax10a.2 NaC-13 GGTGCTGGTGGGATAGGAGTTTTT, NaC-162
TCCATTAAATTCTGGCATATTCTT,
316 bp 50.9C

2Ax10b.1 NaC-145 TCAGAGGGGTGCTTTCTTCCACAT, NaC-14
CTTCGGCTGTCATTGTCCTCAAAG,
298bp 55.6C

2Ax10b.2 NaC-146, GCAAAGGACATTGGCTCTGAGAAT, NaC-
147, CTGCCTGCACCAAGTCACAACTCT
324bp 59.4C

2Ax10c NaC-190, TGGGCTTTGCTGCTTTCAA, NaC-191,
AGTAACTGTGACGCAGGACTTTTA, 218
bp 51.5C

2Ax11.1 NaC-148, CCCTGTTCTCCAGCAGATTA, NaC-70
GTGATGGCCAGGTCAACAAA, 283
bp, 51.5C

2Ax11.2 NaC-149,TTTGATTGTTGGGACTGTTGTAAAC, NaC-
150,AAGGCAATTATAAACTCTTTCAAG
233bp 52.0C
2Ax12 NaC-159, TGGGAGTTAAATTAAGTTGCTCAA, NaC-160,
ACATTTTATGAACACTCCCAGTTA
285bp 50.4C

2Ax13.1 NaC-239 ATTAACACTGTTCTTGCTTTTAT, NaC-240
GTGCCAGCGTGGGAGTTC 239 bp
51.1C

2Ax13.2 NaC-241 GTGGGGGCTCTAGGAAACCT, NaC-242
TTTAATGAAAATGAGGAAAATGTT 324
bp 53.7C

2Ax14.1 NaC-134, GACCAAGCATTTTTATTTTCATTC, NaC-135,
AGTGGCAGCAAGATTGTCA 234
bp, 49.6C

2Ax14.2 NaC-136, GGCCTTGCTTTTGAGTTCC, NaC-137,
GGTCTTTGCCTATTTCTATGGTG, 257
bp, 51.1C

2Ax14.3 NaC-266, TTAAACCGCTTGAAGATCTAAATA, NaC-267
TATACACCAAAAATATCTCCTTAT
319bp 48.5C

2Ax15 NaC-314 GGGGCACACCTAATTAATTTTTAT, NaC-315
AAAGAGGATACTCAAGACCACATA
(247bp) 51.5C

FIGURE 4 (cont'd)
(2/6)

2Ax16 NaC-344 CCCACCAACACAAATATACCTAAT, NaC-345
TGAAGGGAAAGGGAAAAGATTT
283bp 52.2C

2Ax17 NaC-346 TCCAGCCTTAGGCACCTGATAA NaC-347
ATAAAGCAGCAAAGTGCAGCATAC 310bp
52.4C

2Ax18 NaC-348 AAGGCTGAACTGTGTAGACATTTT NaC-349
TGACATTTCCATGGTACAAAGTGT
262bp 52.2C

2Ax19.1 NaC-350 TTTGTTGTTGGCTTTTCACTTAT NaC-351
CCACCTGGCAGTTTGATTG 268bp 51.9C

2Ax19.2 NaC-352 TAAGCGTGGTCAACAACACTACAGT NaC-353
ATTCTTGCCAGCATTTATTGTC
260bp 50.2C

2Ax20 NaC-354 CAAAACATTGCCCCAAAAG NaC-355
TCAAACATAACAATTTCCCTCTAA 239 bp 48.1C

2Ax21 NaC-306, GATAATTA AAAACTCACTGATGTA, NaC-307
GGAGGCTAAAGGAAAGAGTATG
288bp 46.6C

2Ax22 NaC-356 ATTTTATAGCCAGCAAAGAACAC NaC-357
CTAGAAATTCGGGCTGTGAA 230 bp 49.6C

2Ax23.1 NaC-358 CTGCTTTGTGACCTAAGGCAAGTT NaC-359
GTGACCATGTTAAGGCAGATGAGG
290bp 51.4C

2Ax23.2 NaC-360 GGAATGGTCTTTGATTTTGTAACC NaC-361
TCCTTAACTGAATAAAAGCACCTC
290bp 51.6C

2Ax24.1 NaC-207 TGGAACACCCATCAAAGAAGATACT, NaC-208
GTGGGAGTCCTGTTGACACAAAC
278bp 52.8C

FIGURE 4 (cont'd)

(4/6)

2Ax24.2 NaC-209 AGCGATTCATGGCATCAAAC, NaC-210
ACGTGGTGGAAGGCGTCATA 270 bp,
52.9C

2Ax24.3 NaC-211 GCGACCCAGTTTATAGAGTTTGCC, NaC-212
CTTGTTTGCGTTTCAACGTGGTC
289bp 56.1C

2Ax24.4 NaC-213 CAAAGATCACCCCTGGAAGCTCAGTT, NaC-214
ATCCAGGGCATCTGCAAAATCAGAA
277bp 55.8C

2Ax24.5 NaC-215 TGCCTATGTTAAGAGGGAAGTTGGG, NaC-216
ATGACCGCGATGTACATGTTTCAG
279bp 55.3C

2Ax24.6 NaC-278 TCAATTGTTTACAGCCCGTGATG, NaC-279
TTTATACAAAGGCAGACAACAT
302bp 52.0C

2Ax24.7 NaC-280 AGGCGTAATGGCTACTCAGACGA, NaC-281
GTAATCCCTCTCCCCGAACATAAAC
251bp 53.8C

2Ax24.8 NaC-282 TTTGATTCACGGGTGTTTACTCTTA, NaC-283
TTCTATGGAACATTTACAGGCACATT 294bp 52.1C

2Ax24.9 NaC-284 TAATGTGCCTGTAAATGTTCCATAGA, NaC-285
CAGGCTTCTTAGAAAGGACTGATAGG 264bp 50.6C

2Ax24.10 NaC-286 GTCCCAGCAGCATGACTATC, NaC-287
CCCCTGGGTAAAATTACTAAC 249bp
49.4C

2Ax24.11 NaC-288 TAGCCATCTTCTGCTCTTGGT, NaC-289
TGGCTTCCCATATTAGACTTCTG
307bp 51.3C

2Ax24.12 NaC-290 TCTTGCCTATGCTGCTGTATCTTA, NaC-291
AGTCGGGCTTTTCATCATTGAG
207bp 51.8C

FIGURE 4 (cont'd)

(5/6)

2Ax24.13 NaC-292 TTCTTCATGTCATTAAGCAATAGG, NaC-293
TTCAATTATAAAAGTGCTAGGAACA
299bp 49.4C

2Ax24.14 NaC-294 CTTTCAGGTGGATGTCACAGTCACTA NaC-295
ATTCAAGCAATGCCAAGAGTATCA
263bp 51.5C

2Ax24.15 NaC-296 CTTTCAATAGTAATGCCTTATCAT NaC-297
TCCTGCATGCATTCACCAAC
348bp 49.6C

2Ax24.16 NaC-362 CTGTTACATTTTGTA AAACTAAT, NaC-263
ATCCCAAAGATGGCGTAGATGA
309 bp 50.8C

2Ax24.17 NaC-325 CACGCTGCTCTTTGCTTTGA, NaC-363
GATCTTTGTCAGGGTCACAGTCT 269
bp 54.0C

FIGURE 4 (cont'd)

(6/6)

a. Lys908Arg:
normal: TAC AAA GAA;
9782 (Patient with IGE): TAC AGA GAA;

b. leu768val, in individuals 8197, 9062 et 9822 (all IGE patients).

FIGURE 5

3Ax00a.1 NaC-390 TGTGTCCGCCAGTAGATGG, NaC-391
TTTTTGACCACAGAGGTTTACAA 233bp
51.4C

3Ax00a.2 NaC-392 GAAGCGGAGGCATAAGCAGA, NaC-393
GGTGCAGATAATGAAATGTTTTGT
253bp 51.3C

3Ax00b NaC-394 CACCCCTATGCCAAATGTCAAAGA NaC-395
CAAAAACAAACTTATACCCAGAAG
293bp 51.6C

3Ax00c NaC-396 CAAATATTGGGCAAACCCTAAT, NaC-397
AAGGTGCCATCACAAAATCAT 225bp
50.7C

3Ax01.1 NaC-51 ATCGCTTGCTTTCCTAACTCTTGT, NaC-52
AAGTCACTATTTGGCTTTGGTTG,
260bp, 53.1C

3Ax01.2 NaC-53 AGAAGCCCCAAAAAGGAACAAGATA, NaC-54
GGCCCAGAAAAGTATATTACAGTT,
231bp, 50.8C

3Ax02 NaC-85, TCCTTAAATAAGCCCATGTCTAAT, NaC-86,
TCTCAAAGAAATTTTACAGATACT,
273bp, 47.3C

3Ax03 NaC-27, AATGGCCATGGTAACCTACTAACA, NaC-28,
CAGGCTATACCCACAAGGAGATT,
212 bp 51.8C

3Ax04 NaC-94, TGTTAATTTTGGCTTGGATGTT, NaC-95,
TCACTCCTTTGCGCTTATCAA, 198 bp
50.8C

3Ax05.1 NaC-247, AGGGCTCTATGTGCCAAACC, NaC-248,
AGGGGCCTACTACCTTACACCAG 213
bp 52.2C

FIGURE 6
(//5)

3Ax05.2 NaC-249 TGTAATCCCAGGTAAGAAGAAAC, NaC-250
TACCGGGATGAACTGTAATAATAA
304 bp 51.8C

3Ax06.1 NaC-192, TTCTGGCACTCTTCCTCAGGTAAC, NaC-
193, GTCCCATTTGAATCCATTGTGC,
261bp 55.4C

3Ax06.2 NaC-194, GGCCCCCAAGCGATTCTG, NaC-195,
TGTACACCCACAGTCTCAACTATT,
209bp, 50.3C

3Ax07 NaC-204, ACAGCCACCTTTGTAAATAA, NaC-205,
TTTTTCGCAAAGAGTTCTAT
220 bp, 46.6C

3Ax08 NaC-98, AAAGTACCCTACCTCCATTTCTC, NaC-99,
ACTCAGCCTATGCTTTTCATTTC,
247 bp 53.2C

3Ax09 NaC-37 CAGATATTTATTTGGGGACATTAT, NaC-38
AAATCTTTGCKTTTATCACTCAGT, 295
bp, 52.0C

3Ax10a.1 NaC-198 TAGTGCCTGGCTTTGTTTTATGAC, NaC-199
CGGATTTGGGAAAGCTGTCTCT
225 bp 54.3C

3Ax10a.2 NaC-200 AGAGCACCTTGAAGGAAACAACAA, NaC-274,
TCCCTCAACTGAAGTACAGATAGT, 253 bp 51.2C

3Ax10b NaC-33, ATAATTGCGTTCTTCCCCTACCC, NaC-34,
AAGCCCTGGCACCATCCTG, 301
bp, 56.2°C

3Ax10c NaC-35, _TTTGCAAAGAAATGCTATGT, NaC-36,
CTGGGTAACAGACTTCAGTAAT, 303
bp, 51.4°C

3Ax11.1 NaC-122, ATGGGATTGTCTTCTCAAGTTTCT, NaC-123,
GATGGCAAGATCAACAAATGGA
294bp 50.3C

FIGURE 6 (cont'd)

(2/5)

3Ax11.2 NaC-124, CTTGATCTGGGACTGCTGTGATG, NaC-125,
AGGATATAATTTTTGGTTCAACA
284bp 51.5C

3Ax12 NaC-61, TTTTCAGTGCTCTTGATAGTAGTG, NaC-62,
GTGCCAATGAGCGACAGG, 254 bp,
50.7°C

3Ax13.1 NaC-73, CCACGTGTGGTTCTATGATACC, NaC-74,
ACCGTGGGAGCGTACAGTCA 298 bp
52.3C

3Ax13.2 NaC-75, CGGCATGCAGCTCTTTGGTA, NaC-76,
TGGCCACGTTCCCTAGCTACTGTC 291
bp 55.9C

3Ax14.1 NaC-55, GAGTTCCTTTTTAGGCTGTTATT, NaC-56
TCTTATTGCCTTCATGGATTCTA,
285bp, 50.5C

3Ax14.2 NaC-57, TGAAAAATAAGATGCGGGAGTG, NaC-58,
GTGAGGCTGGGGTTGTTTATG, 247
bp, 51.7C

3Ax14.3 NaC-59, GAGATGGGAATGGAACCACCA, NaC-60,
TTCGATAATGCATATAAGCACAA, 297
bp, 51.7C

3Ax15 NaC-318 AAGGGGGAAAATCACATCTTT, NaC-319
TTAAATGAGGCATATTCAGTCTCC 235bp
51.8C

3Ax16 NaC-116, GGAAGTGGAGTGGGGAAGG, NaC-117,
ATTCTTGCCAATATGCATTCACT, 271
bp, 51.1C

3Ax17 NaC-157, TTCTTTTGTA CTCACTATTATACTAA, NaC-
158, AAACCTTGCCTCTTTTAAAAACAAT
317bp 46.6C

3Ax18 NaC-374 TACCACACCCTATACCTTCAGTCA, NaC-375
GAGTATGGCACCCCTTTTCTATCTA
275bp 51.4C

FIGURE 6 (cont'd)
(7/5)

3Ax19.1 NaC-386 GCTATGTTCCCCTCGCTGTCT, NaC-387
TGCTTGCCAAGAGCCTGAC
231bp 53.6C

3Ax19.2 NaC-388 GCTGGCAAGTTCTACCACTGTG, NaC-389
CAAACGAAGAACATCAGGGAAATA
247bp 53.0C

3Ax20 NaC-376 TTCACAATATTGTACAAAAAGTTA, NaC-377
ATTACCACCAATATTCACCATAAG
230 bp 46.4C

3Ax21 NaC-378 TCAGGGTAAGGCAAAAGTAGCAC, NaC-379
GAACCCCGAGAATGAAGAAAGGTAA 294
bp 50.2C

3Ax22 NaC-380 TTTGTGAAAGTACTATTGGAACAC, NaC-381
ACGCATGGCTTTGGAACAT 204bp 49.6C

3Ax23.1 NaC-382 CCCGTATGTGGAAGGGCTTTAT, NaC-383
CTAGGTTGATCCGGGACAAAATA
246bp 52.9C

3Ax23.2 NaC-384 AACGGATGACCAGGGCAAATAC, NaC-385
CTAGAAGGTCCTGGGGCAACTG
234bp 54.8C

3Ax24.1 NaC-317 AAGCCATCATGTAAAGTGAAAAG, NaC-320
ATCCCAAAGATGGCATAGATA 274
bp, 52.5C

3Ax24.2 NaC-325 CACGCTGCTCTTTGCTTTGA, NaC-326 TGAGCTGCCAGGGTGAATTG
282 bp 54.9C

3Ax24.3 NaC-327 TTGCTAGCACCTATTCTTAATAGTGC NaC-328
CCAGGGCAGCTGCAAAATCAGAG
318bp 54.2C

3Ax24.4 NaC-329 CCCGATGCGACCCAGTTTA, NaC-330 TGGAGGGGTTTGATGCCATA
250 bp, 55.2C

3Ax24.5 NaC-331 GATGGATGCCCTTCGAATACAGA, NaC-332
TTCCCATTTAGTTTGTCAATAATC
258 bp 50.6C

3Ax24.6 NaC-321 AAGGGGAGGATTGACTTACCTAT, NaC-333
TTGGCATGGACCTCCTCTTGA 302
bp 51.5C

FIGURE 6 (cont'd)
(5/5)

a. Asn43DEL:

9706 (allele 1; IGE patient): CAA GAT AAT GAT GAT GAG ;

9632 (allele 2; patient has IGE): CAA GAT --- GAT GAT GAG ;

allele 1 = 131/146 (0.90);

allele 2 = 15/146 (0.10);

for IGE patients: homozygotes (22): 3958, 9632; heterozygotes (12): 9049, 9152, 9649, 9710, 9896, 10069, 10191, 10213, 9993, 10009, 10256 (note that 2 patients are homozygous for the rare allele; all patients have IGE); in controls: allele 1 = 45/154 (0.94); allele 2 = 9/154 (0.06) and no 22 homozygotes found.

b. normal: tggtgtaaggtag,

10670 (IGE patient): tggtataaggtag

c. normal: ccccttatctccaac,

10250 (IGE patient): ccccttatayctccaac;

d. Val1035Ile:

normal: AAA TAC GTA ATC GAT,

9269 (IGE patient): AAA TAC RTA ATC GAT; GTA>ATA = Val>Ile.

FIGURE 7